

Panasonic

Cordless Phone

KX-TC930-B

KX-TC930-W

Model No. KX-TC930D-B

Pulse-or-tone dialing capability

Operating Instructions



KX-TC930D-B

2 LINE

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 15 hours before initial use.

Getting Started

Basic Operation

Advanced Operation

Useful Information

Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on pages 32-33 before use. Read and understand all instructions.

Thank you for purchasing the Panasonic cordless telephone.

Attach your purchase receipt here.

For your future reference

Serial No. _____

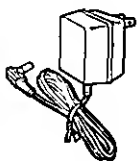
(found on the bottom of the unit)

Date of purchase _____

Name and address of dealer _____

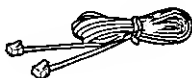
Accessories

- ☐ AC Adaptor
(p. 9)



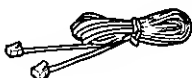
one

- ☐ 4-Wired Telephone Line
Cord with Green Plugs
(p. 10, 11)



one

- ☐ 2-Wired Telephone Line
Cord with Transparent
Plugs (p. 11)



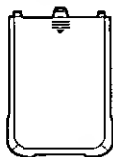
one

- ☐ Battery (p. 8)



one

- ☐ Handset Cover
(p. 8)



one

- ☐ Cradle Cover
(p. 8)



one

- ☐ Handset Clip
(p. 27)



one

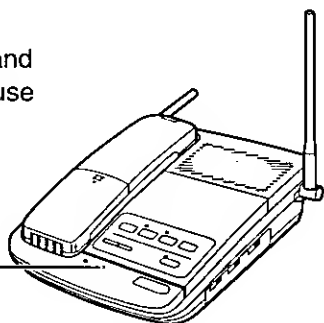
• To order accessories, call 1-800-332-5368.

For Best Performance

Battery Charge

To power the handset, install the battery and charge it for about 15 hours before initial use (p. 12).

- The IN USE/CHARGE indicator lights.

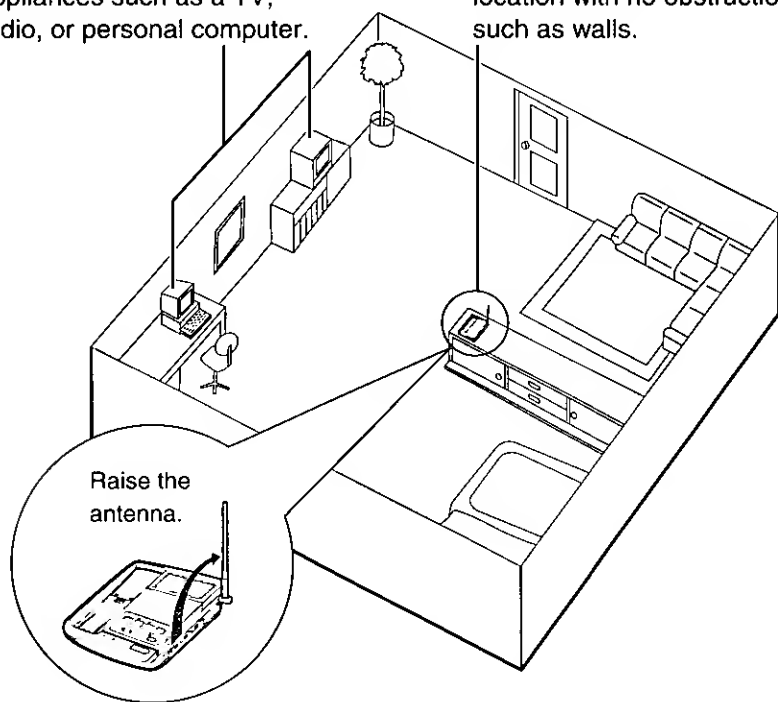


Operating Distance/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. For maximum distance and noise free operation, the recommended base unit location is:

Away from electrical appliances such as a TV, radio, or personal computer.

In a HIGH and CENTRAL location with no obstructions such as walls.



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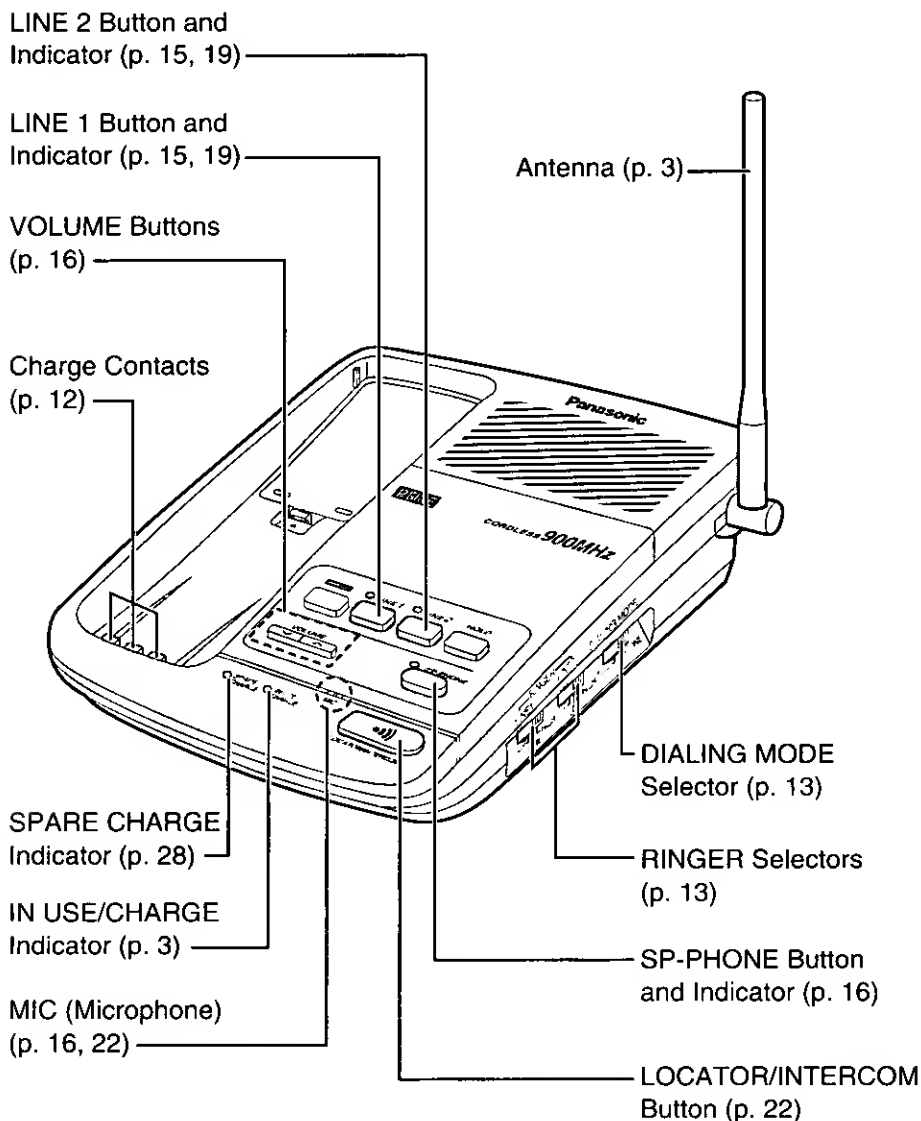
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Location of Controls

Base unit



Battery Charge

Compartment (p. 28)

Cradle Cover
(p. 8)LINE MODE
Selectors (p. 13)HOLD Button
(p. 17, 19)CONF (Conference)
Button (p. 21)

Handset

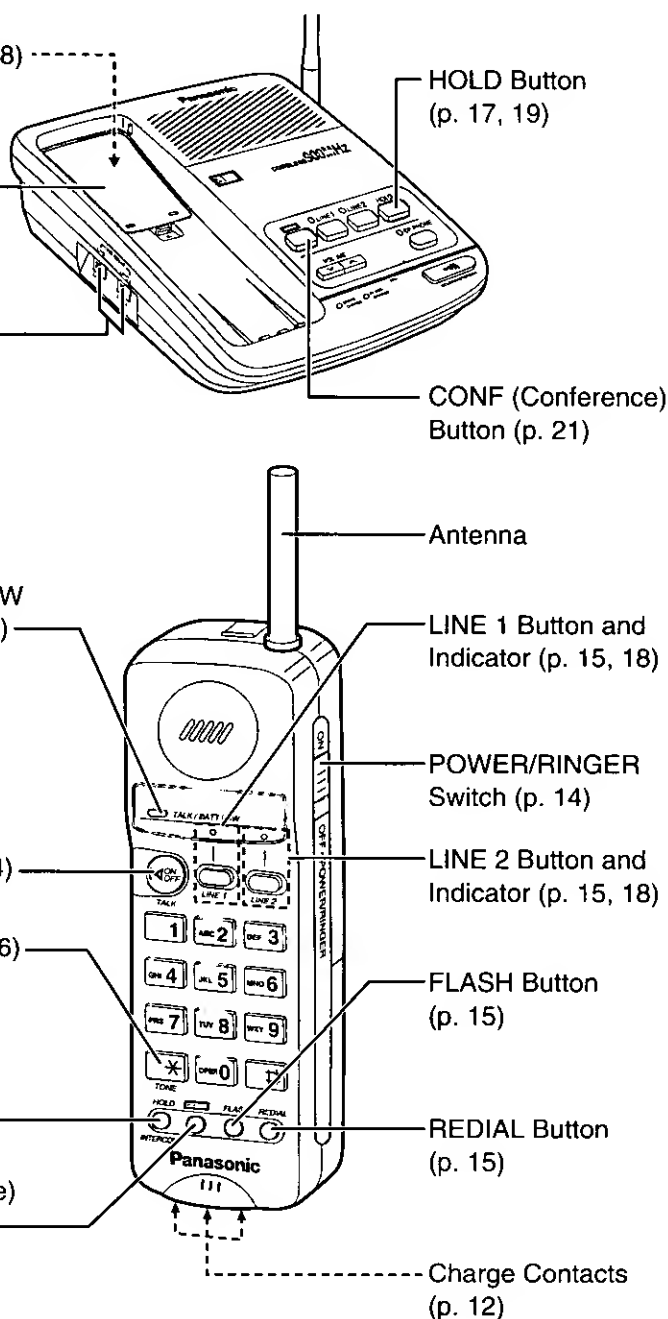
TALK/
BATT (Battery) LOW
Indicator (p. 12, 14)

Antenna

LINE 1 Button and
Indicator (p. 15, 18)POWER/RINGER
Switch (p. 14)LINE 2 Button and
Indicator (p. 15, 18)

TALK Button (p. 14)

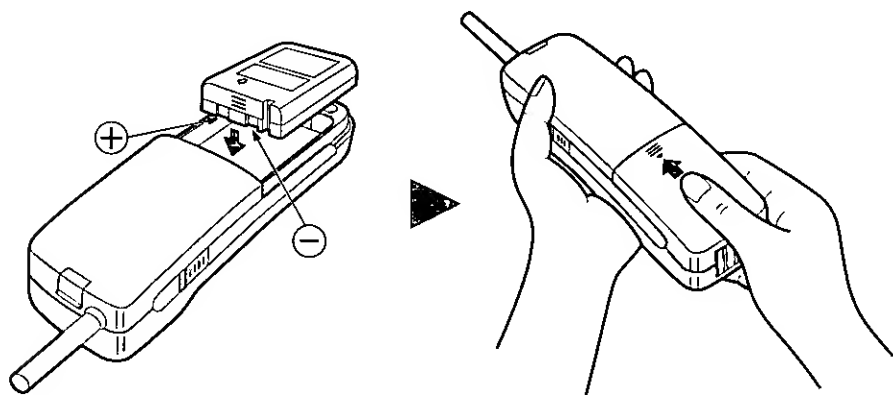
TONE Button (p. 26)

FLASH Button
(p. 15)HOLD/INTERCOM
Button (p. 15, 22)REDIAL Button
(p. 15)CONF (Conference)
Button (p. 20)Charge Contacts
(p. 12)

Setting Up

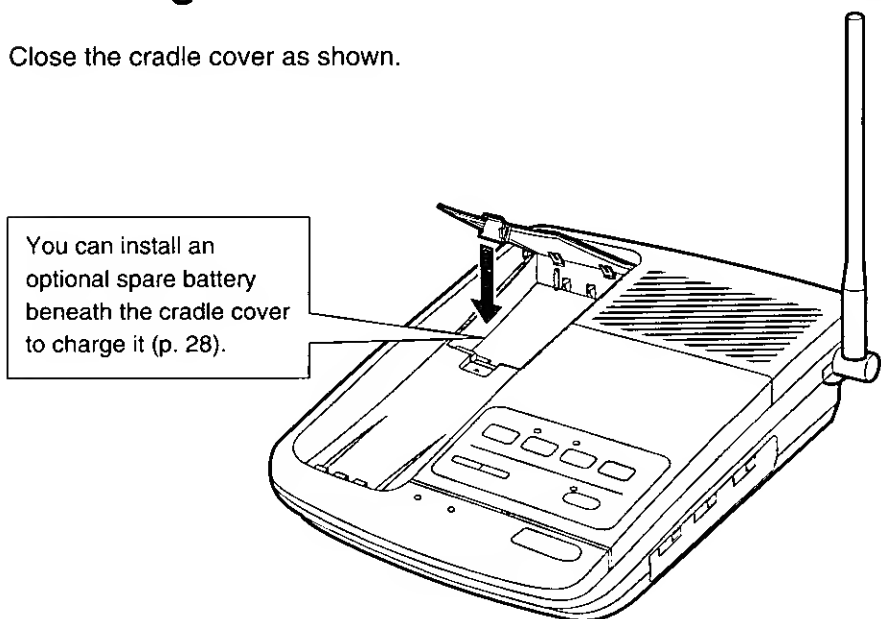
Installing the Battery in the Handset

Install the battery in the direction of the arrow on the battery. Then close the handset cover.



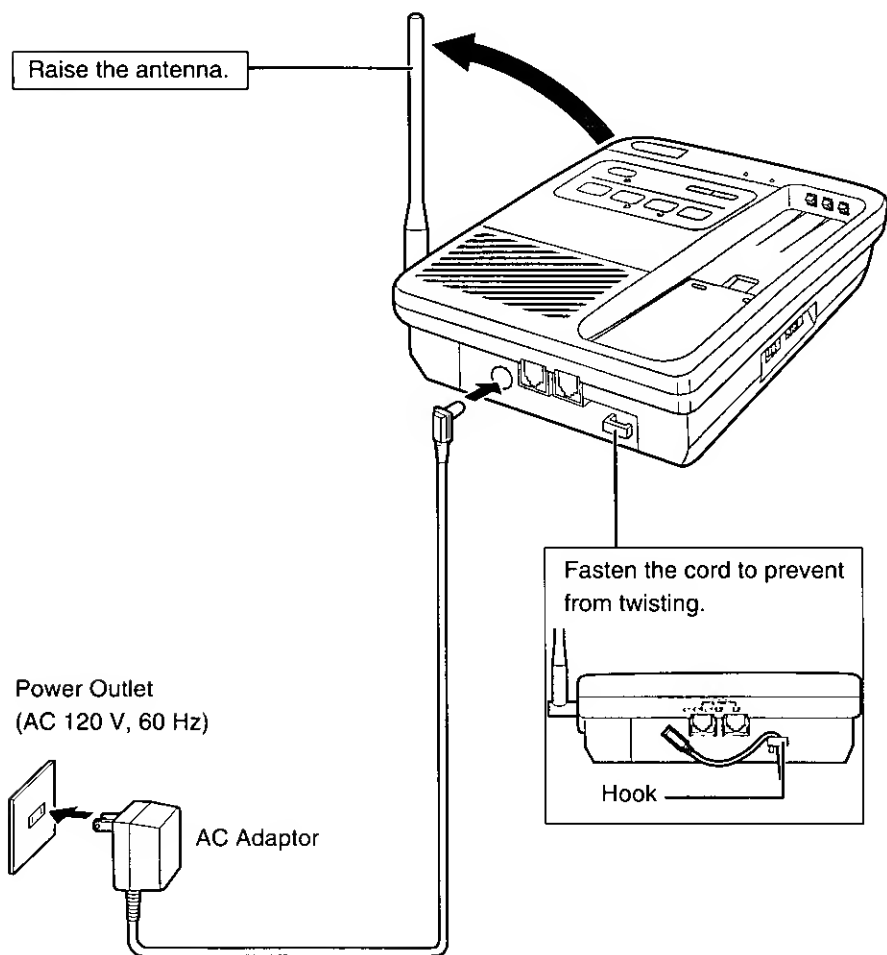
Installing the Cradle Cover on the Base Unit

Close the cradle cover as shown.





Connecting the AC Adaptor

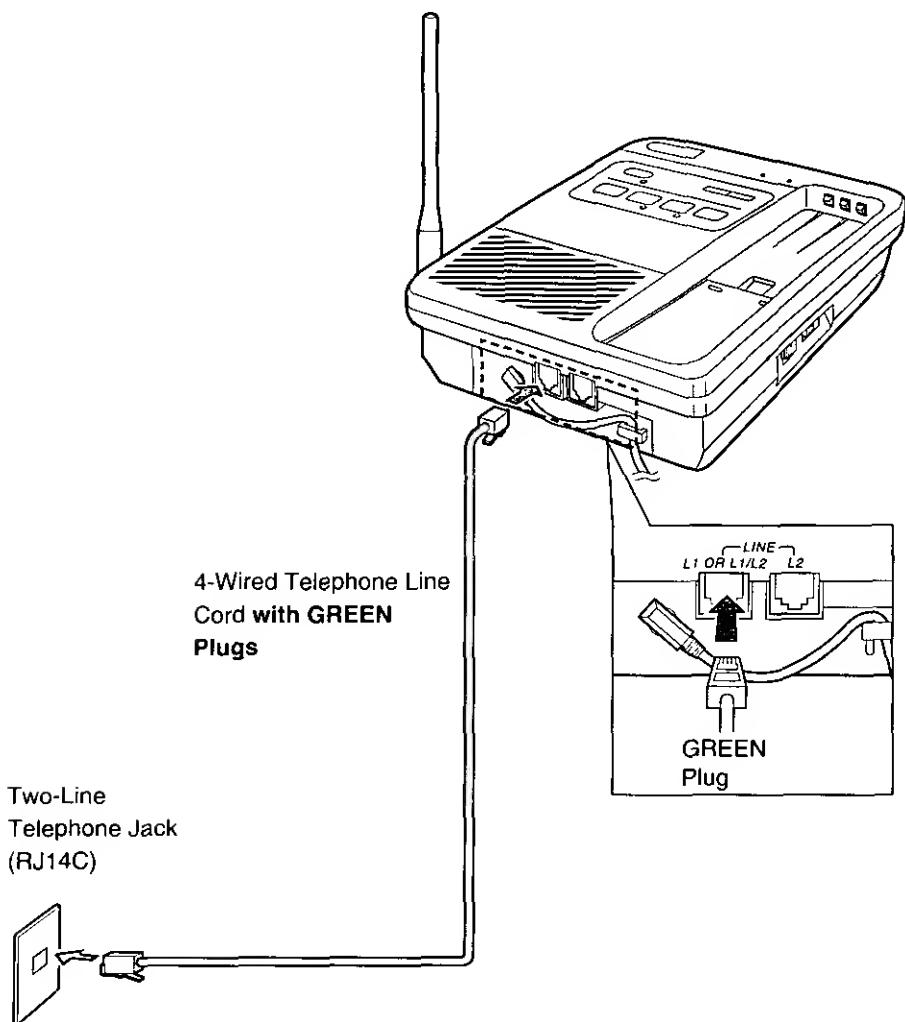


- **USE ONLY** Panasonic AC ADAPTOR KX-A11. The adaptor must remain connected at all times. (It may feel warm during use. This is normal.)
- This unit will not function during a power failure. To connect a reserve telephone on the same telephone line, see page 27.

Connecting the Telephone Line Cord

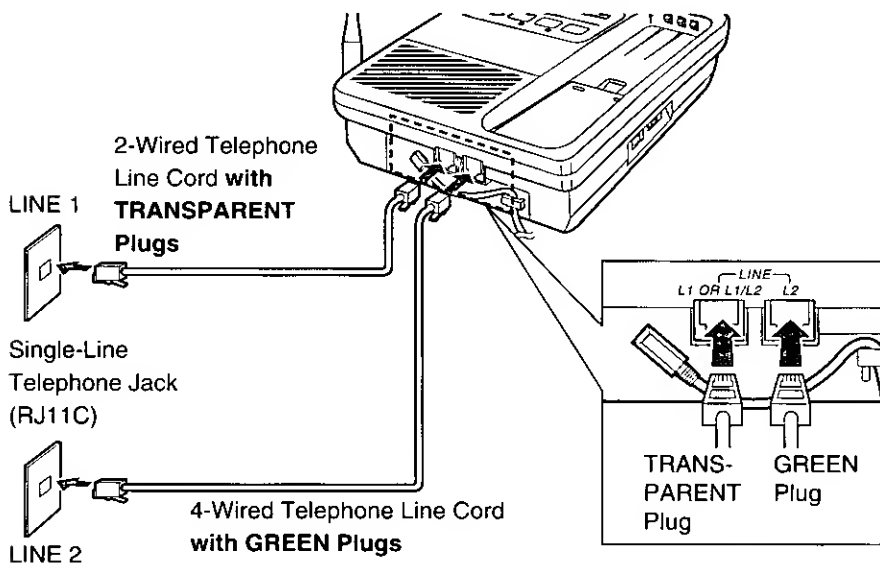
Connect the telephone line cord(s) to the unit as follows.

To connect a two-line telephone jack

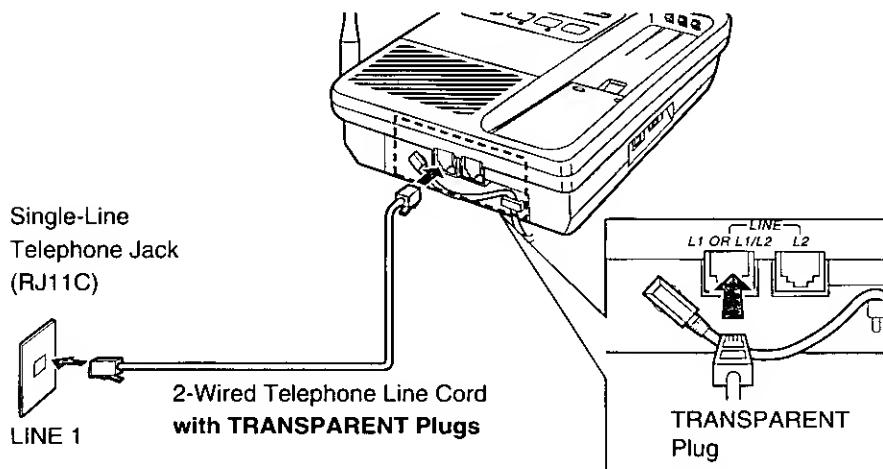




To connect two single-line telephone jacks



If you use the unit as a single-line telephone only

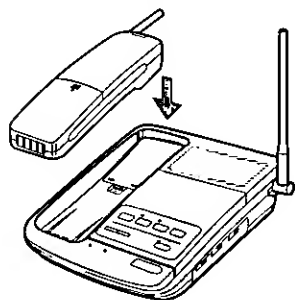


- When using this connection, you can only use LINE 1. In this case, the LINE 2 indicator will not work properly. (It will continue to flash.) For correct line indication, see page 25.

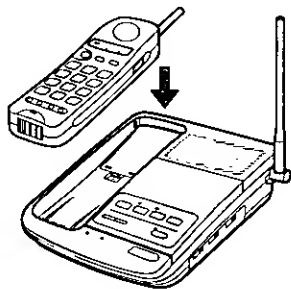
Battery Charge

Place the handset on the base unit for about 15 hours.

- The IN USE/CHARGE indicator lights.



OR

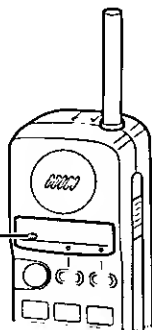


Recharge

When the TALK/BATT LOW indicator flashes or beeps intermittently, recharge the handset battery.

If you do not want to wait until the battery is fully recharged, we recommend you purchase an optional spare battery (p. 28).

TALK/BATT LOW
Indicator



Standard battery life

If your Panasonic battery is fully charged;

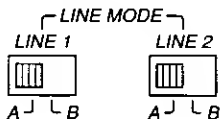
While in use (TALK)	Up to about 4 hours
While not in use (Stand-By)	Up to about 7 days

- Battery life may vary depending on usage conditions and ambient temperature.
- **Clean the charge contacts with a soft cloth once a month**, or the battery may not charge properly.
- Once the battery is fully charged, you do not have to place the handset on the base unit until the TALK/BATT LOW indicator flashes.
- The battery cannot be overcharged.

Setting Selectors

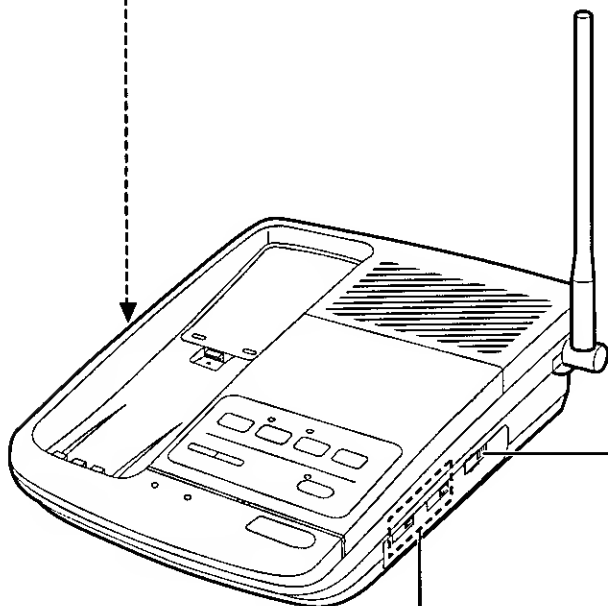
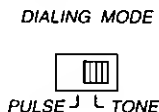
LINE MODE Selectors

Set to A. If the line is connected to a low voltage system such as a PBX, set to B.

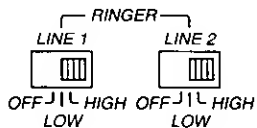


DIALING MODE Selector

Set to TONE when both telephone lines have touch tone service. If either of them has rotary service, set to PULSE.



RINGER Selectors



Used to set the ringer volume of each line at the base unit. Set to HIGH or LOW. When set to OFF, the bell and the incoming call tone (p. 25) will not ring.

Making Calls

The unit will automatically select a free line which is not being used by a parallel connected telephone, when you press **TALK** to make a call. (To change the line selection, see page 24.)

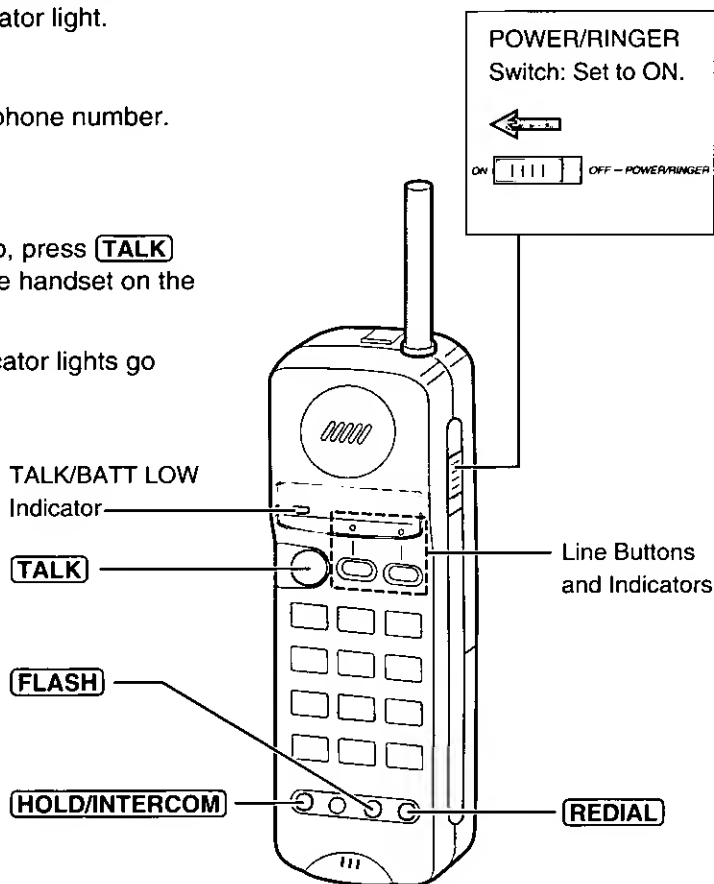
1 Press **TALK**.

- The TALK/BATT LOW indicator and the selected line indicator light.

2 Dial a telephone number.

3 To hang up, press **TALK** or place the handset on the base unit.

- The indicator lights go out.



- If alarm tone sounds in step 1, move toward the base unit or place the handset on the base unit. Then try again.
- In step 1, you may select a line manually by directly pressing the line button instead of **TALK**. (If the unit is programmed to select no line, this is indispensable. See page 24.)

If you misdial

Press **FLASH** firmly. ➔ Dial again.

To redial the last number

Press **TALK** (or a line button) ➔ **REDIAL**.

To put a call on hold

Press **HOLD/INTERCOM**. The TALK/BATT LOW indicator light goes out and the line indicator flashes.

- If you put a call on hold for 6 minutes, a warning tone will sound.
The call will be disconnected after a total of 10 minutes.
- To release the hold, press the line button.

You may make or answer a second call on the other line while keeping the present call on hold. See page 18.

What the line indicator means

Light off	The line is free.
Light on	The line is being used by the handset or the base unit.
Flashing two times every 2 seconds	The line is being used by a parallel connected telephone.
Flashing	The call is on hold.
Flashing quickly	Receiving a call on the line (p. 16).

Lighted keypad

The dialing buttons will light while you are dialing and will flash when a call comes in. The light will go out about 10 seconds after dialing or answering the call.

Answering Calls

When a call is being received, the called line indicator flashes quickly. The line is automatically selected when you answer it. (If the unit is programmed to select no line, you need to press the line button whose indicator is flashing to answer the call. See page 24.)

With the Base Unit (Speakerphone)

When the RINGER selector(s) is set to OFF, the bell will not ring.

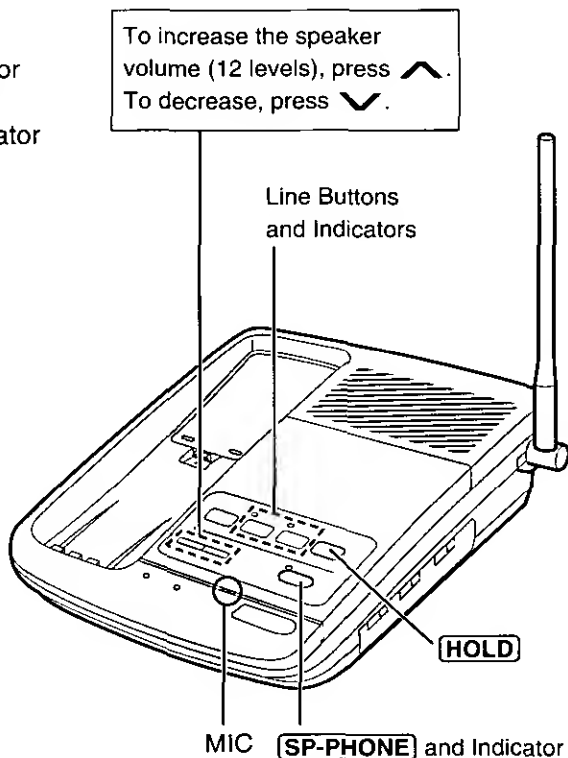
1 Press **SP-PHONE**.

- The called line indicator lights.
- The SP-PHONE indicator lights.

2 Speak into the **MIC** (microphone).

3 To hang up, press **SP-PHONE**.

- The indicator lights go out.



During the speakerphone operation:

- For best performance, speak alternately with the caller in a quiet room.
- If the handset is on the base unit, you may switch to it by lifting up.
- If the other party has difficulty hearing you, press v to decrease the speaker volume.
- You can see the state of the line by the line indicator (p. 15).

To put a call on hold

Press **HOLD**. The SP-PHONE indicator light goes out and the line indicator flashes.

- If you put a call on hold for 6 minutes, a warning tone will sound. The call will be disconnected after a total of 10 minutes.
- To release the hold, press the line button.

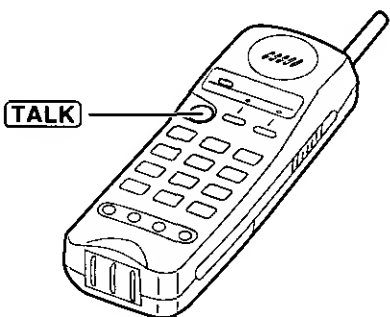
You may answer a second call on the other line while keeping the present call on hold. See page 19.

With the Handset

Make sure that the POWER/RINGER switch is set to ON, or the handset will not ring.

If the handset is off the base unit, press **TALK**.

- The called line indicator lights.



OR

If on the base unit, just lift it.

- The called line indicator lights.



Using the Other Line During a Conversation

During a conversation, if **two tones** sound and the other line indicator flashes quickly, it means an incoming call is being received on the other line. You can answer the second call while keeping the first call. Making a call without ending the first call is also possible with the handset.

You may eliminate the **two tones** (incoming call tone) by programming. See page 25.

With the handset

- 1 Example: If you are using LINE 1**
Press **HOLD/INTERCOM** to put the first call (LINE 1) on hold.

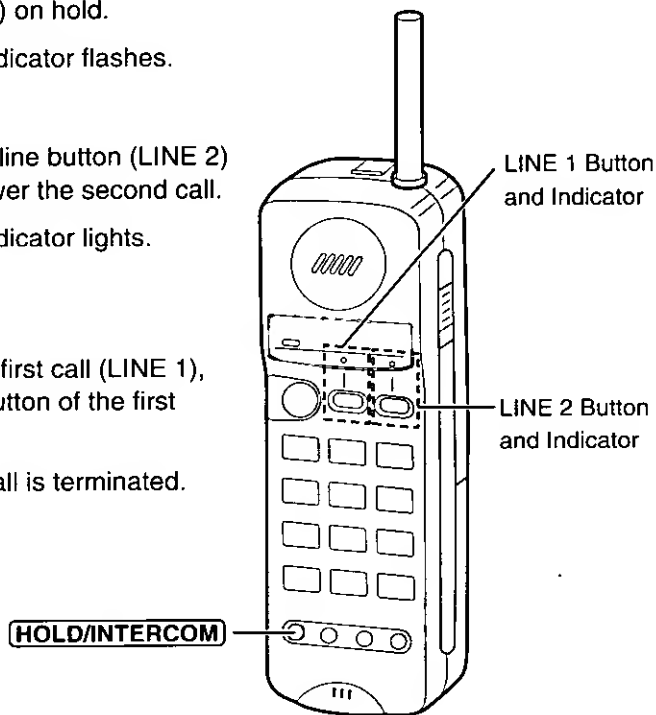
- The LINE 1 indicator flashes.

- 2** Press the other line button (LINE 2) to make or answer the second call.

- The LINE 2 indicator lights.

- 3** To return to the first call (LINE 1), press the line button of the first call (LINE 1).

- The second call is terminated.



- If you want to keep the second call in step 3, press **HOLD/INTERCOM** before pressing the line button of the first call.

With the base unit

1 Example: If you are using LINE 1

Press **HOLD** to put the first call (LINE 1) on hold.

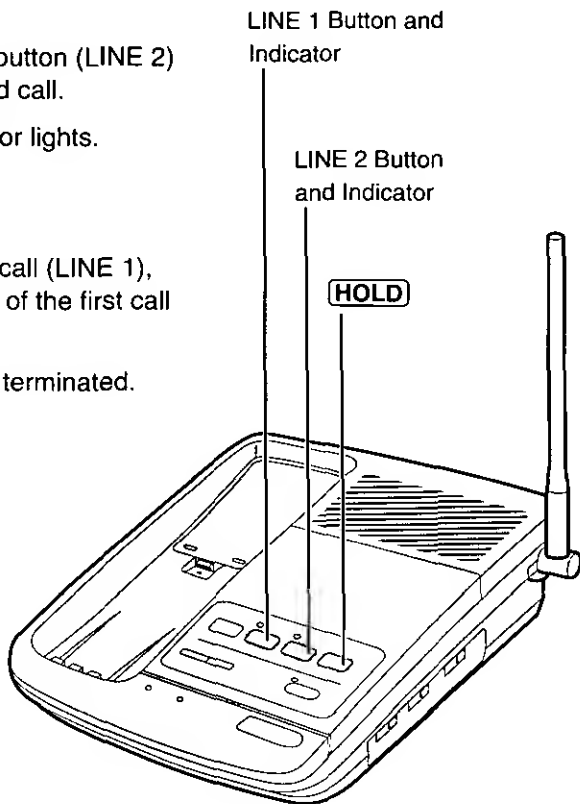
- The LINE 1 indicator flashes.

2 Press the other line button (LINE 2) to answer the second call.

- The LINE 2 indicator lights.

3 To return to the first call (LINE 1), press the line button of the first call (LINE 1).

- The second call is terminated.



Advanced operation

- If you want to keep the second call in step 3, press **HOLD** before pressing the line button of the first call.

Conference

While having a conversation on one line, you can make or answer a second call on the other line, then combine both lines together to establish a conference call.

With the handset

- 1** **Example: If you are using LINE 1**
Press **HOLD/INTERCOM** to put the first call (LINE 1) on hold.

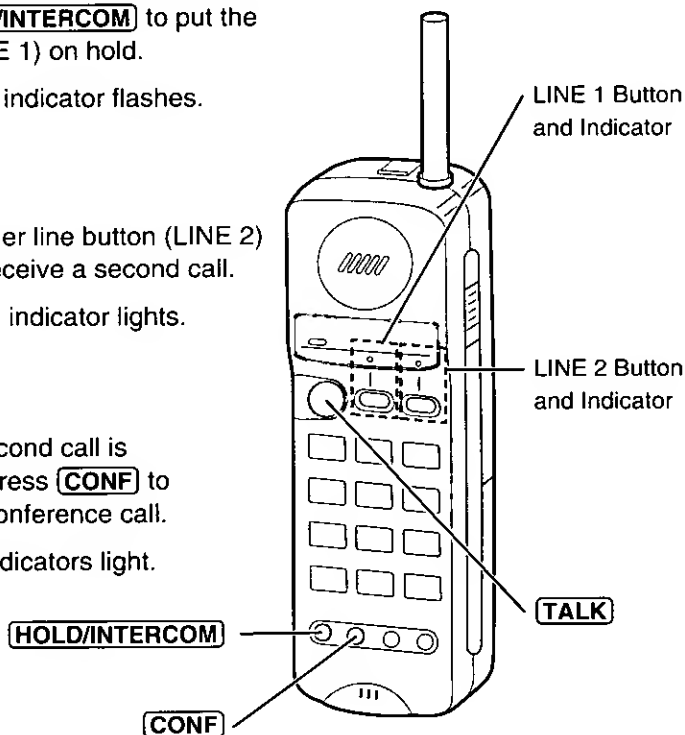
- The LINE 1 indicator flashes.

- 2** Press the other line button (LINE 2) to make or receive a second call.

- The LINE 2 indicator lights.

- 3** When the second call is connected, press **CONF** to establish a conference call.

- Both line indicators light.



During a conference call:

- To hang up both lines, press **TALK**.
- To hang up only one line, press the line button you want to continue.
- To put both lines on hold, press **HOLD/INTERCOM**.
To talk with only one caller, press the corresponding line button. To resume both lines, press **CONF**.
- The base unit user can join a conference call on the handset by pressing **SP-PHONE**.

With the base unit

1 Example: If you are using LINE 1

Press **HOLD** to put the first call (LINE 1) on hold.

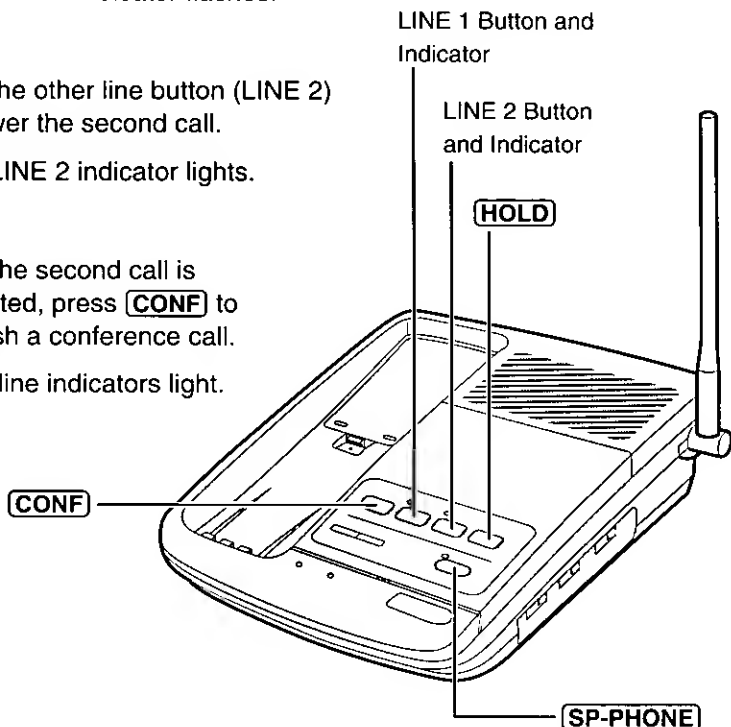
- The LINE 1 indicator flashes.

2 Press the other line button (LINE 2) to answer the second call.

- The LINE 2 indicator lights.

3 When the second call is connected, press **CONF** to establish a conference call.

- Both line indicators light.



During a conference call:

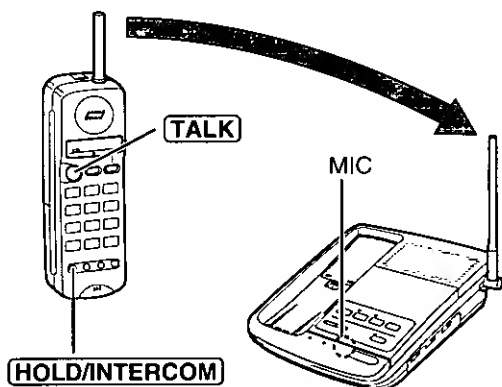
- To hang up both lines, press **SP-PHONE**.
- To hang up only one line, press the line button you want to continue.
- To put both lines on hold, press **HOLD**.
To talk with only one caller, press the corresponding line button. To resume both lines, press **CONF**.
- The handset user can join a conference call on the base unit by pressing **TALK**.

Intercom

A 2-way intercom is available between the handset and the base unit. Intercom calls can be ended by the handset only.

Paging the base unit from the handset

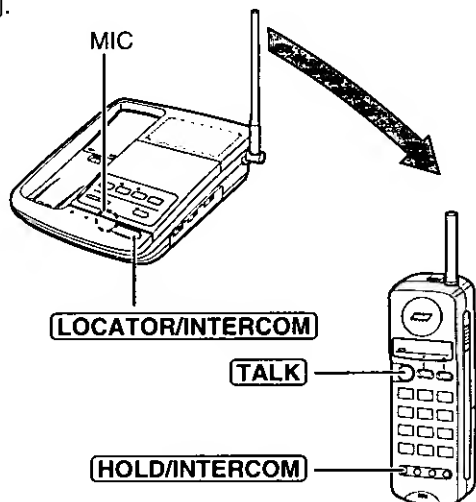
- 1 Handset:
Press **HOLD/INTERCOM**, then speak.
- 2 Base unit:
When the other party's voice is heard, answer through the **MIC**.
- 3 Handset:
To end the intercom, press **HOLD/INTERCOM** or **TALK**.




Paging the handset from the base unit (Handset locator)

Using this feature, you can locate the handset if misplaced.

- 1 Base unit:
Press **LOCATOR/INTERCOM**.
 - The handset beeps for 1 minute.
 - To stop paging, press it again.
- 2 Handset:
Press **HOLD/INTERCOM** or **TALK** to answer.
- 3 Base unit:
Speak into the **MIC**.
- 4 Handset:
To end the intercom, press **HOLD/INTERCOM** or **TALK**.



During the intercom:

- The TALK/BATT LOW indicator flashes to show the intercom mode.
- If the handset user has difficulty hearing the base unit user, press  to decrease the speaker volume of the base unit.
- If two tones sound, it means a call is being received. To answer, press the line button whose indicator is flashing. The intercom is ended.

Transferring Calls Using the Intercom

The intercom can be used during a call. This feature enables you to transfer a call between the handset and the base unit.

From the handset to the base unit

- 1 Handset:**
During a call, press **HOLD/INTERCOM** to put it on hold.
 - The line indicator flashes.
- 2 Handset:**
Press **HOLD/INTERCOM** to page the base unit.
- 3 Base unit:**
When the paging party's voice is heard, answer through the **MIC**.
- 4 Base unit:**
To answer the call, press the line button whose indicator is flashing.
 - The transfer is completed.
 - The handset user can join the conversation by pressing the line button whose indicator light is on.

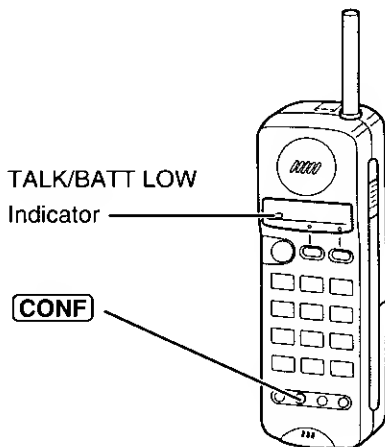
From the base unit to the handset

- 1 Base unit:**
During a call, press **HOLD** to put it on hold.
 - The line indicator flashes.
- 2 Base unit:**
Press **LOCATOR/INTERCOM**.
- 3 Handset:**
Press **HOLD/INTERCOM** or **TALK** to answer the page.
- 4 Handset:**
To answer the call, press the line button whose indicator is flashing.
 - The transfer is completed.
 - The base unit user can join the conversation by pressing the line button whose indicator light is on.

Programmable Functions

You can program the following functions **by using the handset near the base unit**. Be sure that the TALK/BATT LOW indicator light is off.

- If an alarm tone sounds when you press **[CONF]**, move toward the base unit, then try again.



Line Selection Programming

The unit will automatically select a free line which is not being used by a parallel connected telephone, when you press **[TALK]** to make a call. Also the unit will select the called line when you press **[TALK]** or **[SP-PHONE]** to answer the call. To change the line selection, program as follows.

1. Press **[CONF]** to start programming.
 - The TALK/BATT LOW indicator flashes.
 2. Press **[1]**.
 3. Press **[1]**, **[2]**, **[3]**, or **[0]** to select the desired line selection.
 - 1: Line 1 will be selected first.
 - 2: Line 2 will be selected first.
 - 3: A free line will be selected (Line 1 has priority) when making a call. When a call is received, the called line is automatically selected.
 - 0: No line will be selected automatically. (You should press **[LINE 1]** or **[LINE 2]** to select the line when making/answering a call.)
 4. When finished, press **[CONF]**.
 - The TALK/BATT LOW indicator light goes out.
- Any line can be selected manually in any mode (0 to 3) by pressing the line button directly.

Line Indicator Programming

Both of the line indicators are preset to ON. If you connect this unit to a single telephone line only, the unused line's indicator will continue to flash. To turn off the indicator, program as follows.

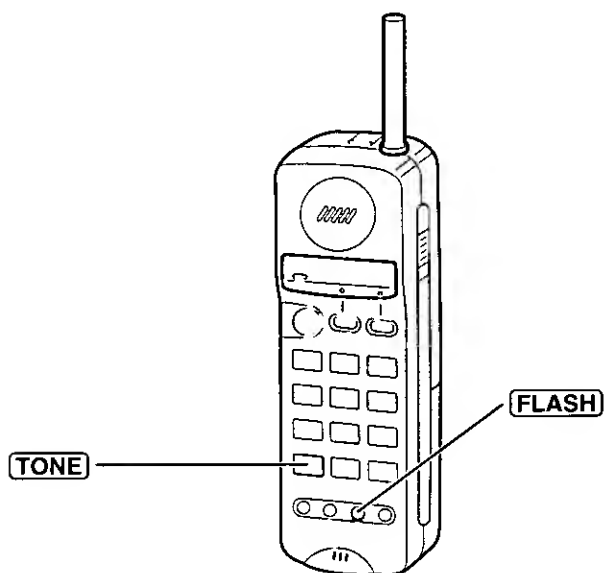
1. Press **[CONF]** to start programming.
 - The TALK/BATT LOW indicator flashes.
2. Press **[2]**.
3. Press **[1]** or **[2]** to select the line indicator.
 - 1: Line 1
 - 2: Line 2
4. Press **[2]** (OFF) to deactivate the indicator.
 - To activate the line indicator again, press **[1]** (ON).
5. When finished, press **[CONF]**.
 - The TALK/BATT LOW indicator light goes out.

Incoming Call Tone Programming

When a line is being used and another call arrives at the other line, the unit will indicate this by a series of two tones (and the quick flashing of the line indicator). This incoming call tone (and the indicator's flashing on the handset) can be eliminated/set by programming. (The incoming call tone during an intercom call will not accord with this setting.)

1. Press **[CONF]** to start programming.
 - The TALK/BATT LOW indicator flashes.
2. Press **[3]**.
3. Press **[1]**, **[2]**, or **[3]**.
 - 1: Incoming call tone will sound as long as the other line rings.
 - 2: Incoming call tone will sound only 2 times.
 - 3: Incoming call tone will not sound.
4. When finished, press **[CONF]**.
 - The TALK/BATT LOW indicator light goes out.
- When the RINGER selector(s) is set to OFF, the incoming call tone will not sound on the base unit.

Special Features



Automatic Security Code Setting

Whenever you place the handset on the base unit, the unit automatically selects one of a million security codes. These codes help to avoid unauthorized use of your telephone line by another cordless telephone.

For Call Waiting Service Users

Press **FLASH** lightly if you hear a call-waiting tone while speaking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH** again.

Temporary Tone Dialing (For Rotary Service Users)

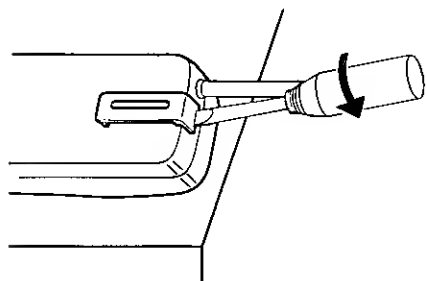
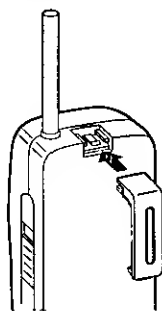
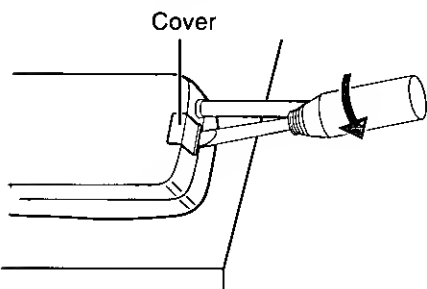
Press **TONE** before dialing.

- The dialing mode changes to tone. You can enter numbers to access answering systems, electronic banking services, etc. When you hang up, the mode returns to pulse.

Installing the Handset Clip

You can hang the handset on your belt or pocket by attaching the handset clip.

Lay the handset on a flat surface and **carefully** insert a flat-head screwdriver or similar object. Turn the driver **slowly** to remove the cover. Then insert the handset clip.

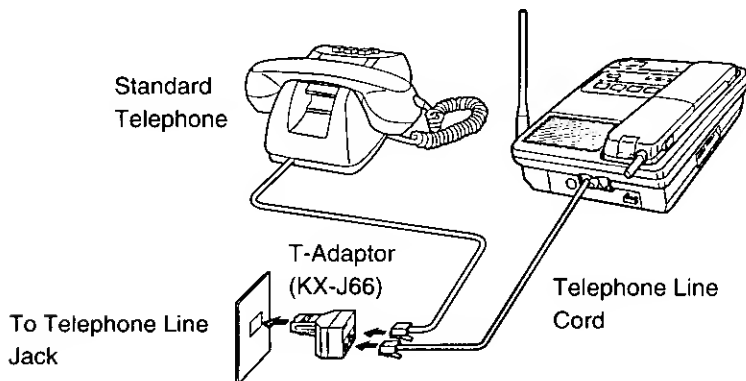


To remove the handset clip

Slide the handset clip with a flat-head screwdriver or similar object.

Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use Panasonic T-adaptor KX-J66. (To order, call 1-800-332-5368.)

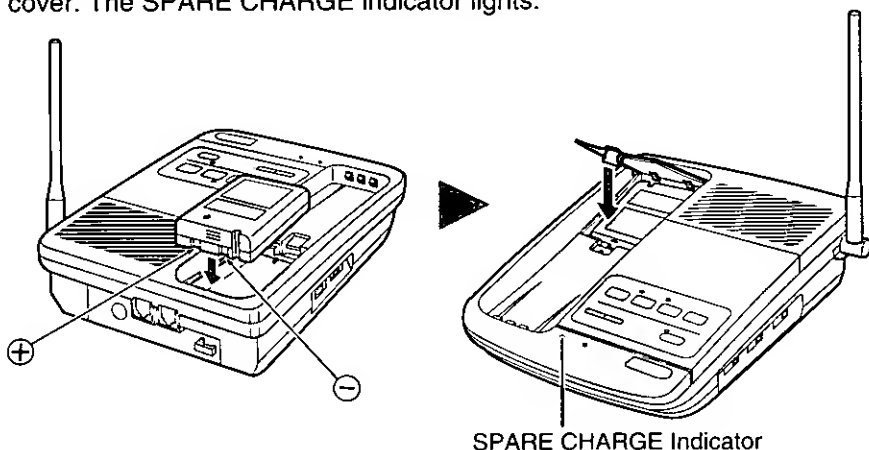


Optional Spare Battery

When the handset battery needs charging, replace it with a fully charged optional spare battery. This eliminates having to wait for the handset battery to recharge. **Please purchase a Panasonic KX-A43 battery** and install it in the base unit to charge.

Installing the spare battery in the base unit

Open the cradle cover by pushing the tab and raising it. Install the spare battery in the direction of the arrow on the battery, then close the cradle cover. The SPARE CHARGE indicator lights.



- The spare battery is always being charged in the base unit while the AC adaptor is connected. The battery cannot be overcharged.

Attention:

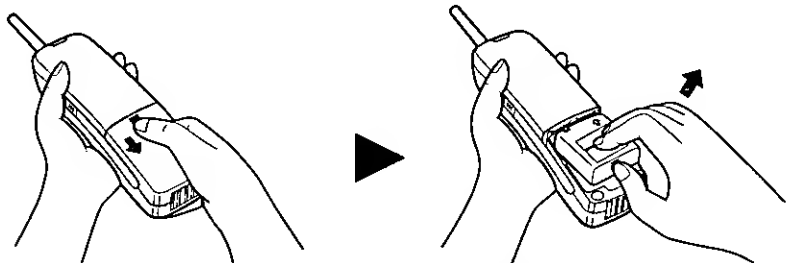
The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



Replacing the handset battery with the spare battery

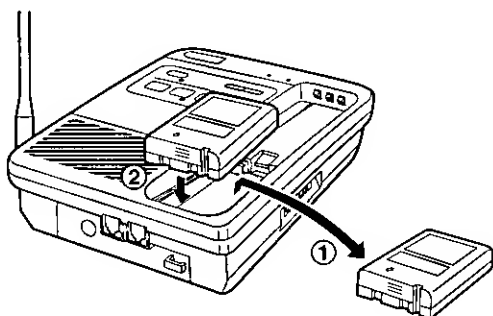
To prevent memory loss, replace within 5 minutes.

- 1 Set the POWER/RINGER switch to OFF to prevent memory loss.
Remove the handset cover, then remove the battery.



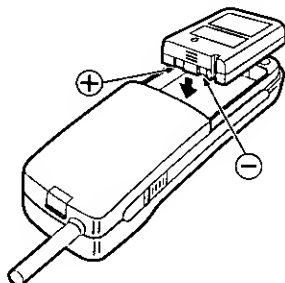
- 2 Replace the handset battery with the spare battery in the base unit.

- ① Remove the spare battery.
- ② Insert the handset battery in the base unit in the correct direction.




- 3 Install the spare battery in the handset in the correct direction.

- When you finish, close the handset cover and set the POWER/RINGER switch to ON.



- If the TALK/BATT LOW indicator flashes even when the handset battery has been fully charged, it is time to change the battery with a new one. Remember to fully charge the new battery after battery replacement.
- Please use only a Panasonic KX-A43 battery.
To order, call 1-800-332-5368.

Before Requesting Help

Problem	Remedy
An alarm tone sounds when you press TALK , LINE 1 , LINE 2 , CONF or HOLD/INTERCOM on the handset.	<ul style="list-style-type: none">• You are too far from the base unit. Move closer and try again.• Place the handset on the base unit and try again.• Plug in the AC adaptor.
An alarm tone sounds continuously, while using the handset.	<ul style="list-style-type: none">• Move closer to the base unit quickly, or the call will be terminated within 60 seconds.• Make sure that the AC adaptor is connected.
The unit does not work.	<ul style="list-style-type: none">• Check the setting-up (p. 8-13).• Charge the battery fully.• The security codes in the handset and the base unit are not the same. Place the handset on the base unit.
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none">• Set the handset and the base unit away from electrical appliances.• Move closer to the base unit.• Raise the base unit antenna.
The handset does not operate or ring.	<ul style="list-style-type: none">• The POWER/RINGER switch is set to OFF. Set to ON.
The base unit does not ring.	<ul style="list-style-type: none">• The RINGER selectors are set to OFF. Set to HIGH or LOW.
While using the speakerphone, the calling party complains that your voice is hard to hear.	<ul style="list-style-type: none">• Press  to decrease the speaker volume.
The line indicators do not work properly.	<ul style="list-style-type: none">• Check the connection (p. 9-11).• See page 25 for proper operation of line indicators.• The setting of the LINE MODE selectors is wrong. See page 13.

Problem	Remedy
I cannot make or answer a call with the handset (or base unit)	<ul style="list-style-type: none"> The base unit (or handset) user is having a call on one line. Wait until the line indicator light goes out.
While having an outside call, two tones sound and the other line indicator flashes quickly	<ul style="list-style-type: none"> Someone is calling you on the other line. To answer, press HOLD/INTERCOM or HOLD to put the current call on hold, then press the line button whose indicator is flashing quickly. See pages 18-19.
LOCATOR/INTERCOM does not function	<ul style="list-style-type: none"> The handset is too far from the base unit or is engaged in an outside call.
During an intercom call, two tones sound	<ul style="list-style-type: none"> A call is being received. To answer, press the line button whose indicator is flashing.
The TALK/BATT LOW indicator flashes or beeps intermittently	<ul style="list-style-type: none"> Charge the battery fully or replace with the fully charged optional spare battery (p. 12, 29).
You charged the battery fully, but the TALK/BATT LOW indicator flashes	<ul style="list-style-type: none"> Clean the charge contacts and charge again. It is time to change the battery. Please purchase a new battery (p. 29).
The IN USE/CHARGE indicator and/or the SPARE CHARGE indicator light never goes out while charging	<ul style="list-style-type: none"> This is normal.
The unit stops working during operation	<ul style="list-style-type: none"> Unplug the AC adaptor and set the POWER/RINGER switch to OFF to reset. Reconnect the AC adaptor and set the switch to ON, then try again. Re-insert the handset battery within 5 minutes and try again.
If you cannot solve your problem	<ul style="list-style-type: none"> Call our customer satisfaction center at 800-922-0028.

Important Safety Instructions

When using this unit, basic safety precautions as below should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from wall outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bath tub, wash bowl, kitchen sink, or the like.
5. Install this unit securely on a stable surface. Serious damage may result if the unit falls.
6. Do not cover slots and openings of the unit, for they are provided for ventilation and protection against overheating. Never place the unit near radiators, in/ or a place where proper ventilation is not provided.
7. Use only the power source as marked on the unit. If you are not sure of the type of the power supply to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step on the cord.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
10. Never push any objects into this unit through slots as they may result in risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions, for improper adjustment may require extensive work by a qualified technician.
 - E. If the unit has been dropped or damaged.
 - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of electric shock from lightning.

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14. Do not use this unit to report a gas leak in the vicinity of it.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) instructed.
2. Do not dispose of the battery(ies) in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

FCC and Other Information

If requested by the telephone company, inform them as follows:

FCC Registration No.

(found on the bottom of the unit)

Ringer Equivalence 0.2B

The particular telephone lines to which the equipment is connected.

This unit must not be connected to a coin operated line.

If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.

- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

- **Environment** — do not place the unit in rooms where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you left the unit unused for long time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-545-2672 for the location of an authorized servicenter.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

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One Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.**
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
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